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NEW SOVIET BOOKS ON CHEMISTRY AND RELATED FIELDS

New Ideas in the Study of Aerosols, edited by B. V. Deryagin, Corresponding Member, Academy of Sciences USSR, published by the Academy of Sciences USSR, Moscow and Leningrad, 1949; 128 pages, 6 rubles. This book, a collection of papers on work done at the Institute of Physical Chemistry, contains the following articles:

Accurate Method for Ultramicroscopic Measurements of Local Concentrations of Aerosols and Other Dispersed Systems, B. V. Deryagin and G. Ya. Vlasenko; "Formation of Aerosols by Mixing Masses of Steam with Different Temperatures," A. G. Amelin; "Theory of the Movement and Growth of Drops in a Rising Stream of Air Either Unsaturated or Supersaturated with Steam and Possible Meteorological Applications," Deryagin and O. M. Todes; "Theory of the movement and growth of heavy Drops of a Solution in a Rising Air Stream," F. R. Leyb; "Coagulation of Aerosols in the Presence of Extraneous Vapors" and "The Effect of Vapors of Foreign Substances on the Form of the Particles and on the Coagulation of Aerosols," I. S. Artemov; "Study of the Reasons for the Nonconfluence of Liquid Drops under Static Conditions (during prolonged contact)," Deryagin and B. S. Prokhorov; "Explanation of the Mechanism of the Nonconfluence of Water Droplets as a Result of Collision," Prokhorov; and "Diffusion and Coagulation of Aerosol Particles in Turbulent Flow in the Atmosphere," Ye. N. Teverovskiy.

Mechanical Testing of Rubber and Caoutchouc, by G. Sh. Izreyelite, published by Goskhimizdat, Moscow and Leningrad, 1949; 456 pages, 24 rubles 50 kopeks. Briefly lists methods for testing rubber for elongation and compression, for determining its strength and elasticity and for measuring its hardness and shock resistance. Studies on the plasticity of rubber and caoutchouc mixtures, as well as the resistance to repeated deformations of these, are reviewed. The author also cites methods for testing elastic recovery and resistance to abrasion, suggesting some methods for the industrial control of rubber products.

Hexachlorocyclohexane, by Yu. N. Bezobrazov and A. M. Molchanov, published by Goskhimizdat, Moscow and Leningrad, 1949. 144 pages and three enclosures, 7 rubles 50 kopeks. Data on the structure and properties of this compound is

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given, and the author suggests a method for the preparation. The production of hexachlorohexane enriched with the gamma-isomer as well as problems of its degasification, analysis, and use as an insecticide are investigated.

Investigations in the Field of High-molecular Compounds, edited by S. S. Medvedev, Corresponding Member, Academy of Sciences USSR, published by the Academy of Sciences USSR, Moscow and Leningrad, 1949; 360 pages and four enclosures, 17 rubles. Publishing authority: Committee on High-molecular Compounds of the Departments of Chemical and Physicomathematical Sciences. A report on six conferences of the committee.

Absorption in the Production of Sodium Carbonate, by I. L. Ierner, published by Goskhimizdat, Moscow and Leningrad, 1949; 184 pages and three enclosures, 60 rubles 70 kopeks. This book describes the layout of the absorption stations in soda plants and tells how they are operated, controlled and serviced.

Natural Sulfur, by M. A. Menkovskiy, published by Goskhimizdat, Moscow and Leningrad, 1949; 208 pages, 9 rubles. Menkovskiy reviews the technology of obtaining and dressing sulfur ores, and problems related to using sulfur in the technology of wholly varied industrial processes.

Combustion of Carbon, by A. S. Predvoditelev, L. N. Khitrin, O. A. Tsukhanova, Kh. I. Kolodtsev, and M. K. Grodzovskiy, published by the Academy of Sciences USSR, Moscow and Leningrad, 1949; 408 pages, 27 rubles 50 kopeks. Contains work done at the Power Engineering Institute imeni G. M. Krzhizhanovskiy. Edited by Predvoditelev, Corresponding Member of the Academy of Sciences USSR.

Report on the Scientific Works of the Members of the All-Union Chemical Society imeni D. I. Mendeleev, No 1 and 2, published by the Academy of Sciences USSR, Moscow and Leningrad, 1949; 70 pages, free.

Vol I of Heilbron's Dictionary of Organic Compounds, reprint in English by the State Publishing House of Foreign Literature in Moscow, is reviewed by D. N. Kursanov. The availability of this standard handbook is regarded as a great advantage by the reviewer, who looks forward to the publication of reprints of Vol II and III. Kursanov regrets that a somewhat inadequate coverage of work done by Russian chemists has been given in an otherwise excellent work.

Vol II of 263-page work, Catalytic Aromatization of Paraffin Hydrocarbons, published by the Academy of Sciences USSR in 1949, is reviewed by A. D. Petrov. However, he deplores the fact that the isomerization of five-membered rings into six-membered rings is not mentioned at all, while the reverse process (isomerization of the six-membered rings into five-membered rings) is treated fully.

[None of these books is available in CIA at present.]

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